Rubric 1: *Knowledge Spaces and Models*

Category	Score

Knowledge Spaces

Team Identifications and Collaborations
- An informative visual includes team name, team members, and affiliations. (__/4)
- Evidence clearly shows the team shared responsibility and worked together. (__/4)

Design Process (Team's Original Spinoff Innovation)
Evidence of EACH of these steps of the Design Process must be clearly displayed in the Knowledge Space. See the Design Process Packet for more details.

Identify the Problems
- A problem statement for applying the JWST technology to other situations is stated clearly. (__/4)

Identify Criteria and Constraints
- Conditions and limits to the solution (should be specific) are clearly identified as the technology is applied to a new situation. (__/4)

Brainstorm Possible Solutions
- Important information about the mission was considered in the spinoff. (__/4)
- The reasons the team chose and did not choose brainstormed ideas are clearly identified. (__/4)

Select a Design
- Sketches clearly depict the design. (__/4)
- Strengths and weaknesses of the design are discussed including the business merits of the design. (__/4)

Content Application and Merit of the Design
- Design is feasible and based on accurate applications of science and mathematical concepts. (__/4)
- Explanation includes evidence of research to support science and mathematical concepts. (__/4)
- Design has commercial potential. (__/4)

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Models	
Tools • Tool(s) used to create 3D InWorld Models are identified. (__/4) **First Model – JWST** • A realistic 3D model of JWST is included in the Knowledge Space. (__/4) **Second Model – JWST Spinoff** • An image of the original spinoff technology is included. (__/4) • A realistic 3D model original spinoff technology is included in the Knowledge Space. (__/4) • Strengths and weaknesses of the design are displayed. (__/4) **Third Model – Tech Transfer (Apply the RW technology to other situations)** • A realistic 3D model depicting the use of the JWST technology in another situation is included in the Knowledge Space. (__/4) • Strengths and weaknesses of the design are displayed. (__/4)	____ **/28**
***Note: Judges may award up to 8 additional points for unique and exceptional work. (__/8)*	**Total:** ____ **/ 80**

Assessment

4 (Excellent) = All criteria (procedures, steps, and details) are met or followed.
3 (Good) = Most criteria are met with only a few errors.
2 (Fair) = Many criteria are met, but work has significant errors.
1 (Poor) = Most criteria are not met.
0 (No effort) = No effort to meet criteria.